

WHAT IS CLAIMED IS:

1. A centralized connector module, comprising:
2 a dielectric body having interconnected terminal sets
3 corresponding to components connectable thereacross; and
4 continuity indicator circuits associated with at least some of
5 said terminal sets and configured to indicate continuity faults
6 with respect to connected ones of said components.

2. The module as recited in Claim 1 wherein at least some of
2 said terminal sets are interconnected in series.

3. The module as recited in Claim 1 wherein said continuity
2 indicator circuits include light-emitting diodes.

4. The module as recited in Claim 1 wherein said continuity
2 indicator circuits have impedances based on illuminating associated
3 light-emitting diodes.

5. The module as recited in Claim 1 further comprising an AC
2 Power In terminal set and a voltage indicator circuit associated
3 therewith and configured to indicate a presence of a voltage
4 thereacross.

6. The module as recited in Claim 1 further comprising
2 output terminal sets and voltage indicator circuits associated
3 therewith and configured to indicate an operation of corresponding
4 ones of said components.

7. The module as recited in Claim 1 wherein said terminal
2 sets remain functional upon a failure of any of said continuity
3 indicator circuits.

8. A refrigeration unit, comprising:

a frame having a service panel;

a compressor component coupled to said frame;

at least one sensor component coupled to said frame;

a fan component coupled to said frame;

a timer component coupled to said frame; and

a centralized connector module located proximate said service panel and including:

a dielectric body having interconnected terminal sets corresponding to said compressor component, said at least one sensor component, said fan component and said timer component, and

continuity indicator circuits associated with at least some of said terminal sets and configured to indicate continuity faults with respect to said refrigeration unit.

9. The unit as recited in Claim 8 wherein at least some of said terminal sets are interconnected in series.

10. The unit as recited in Claim 8 wherein said continuity indicator circuits include light-emitting diodes.

11. The unit as recited in Claim 8 wherein said continuity
2 indicator circuits have impedances based on illuminating associated
3 light-emitting diodes.

12. The unit as recited in Claim 8 further comprising an AC
2 Power In terminal set and a voltage indicator circuit associated
3 therewith and configured to indicate a presence of a voltage
4 thereacross.

13. The unit as recited in Claim 8 further comprising output
2 terminal sets and voltage indicator circuits associated therewith
3 and configured to indicate an operation of corresponding ones of
4 said components.

14. The unit as recited in Claim 8 wherein said terminal sets
2 remain functional upon a failure of any of said continuity
3 indicator circuits.

15. A method of assembling a refrigeration unit, comprising:
2 mounting a centralized connector module to a frame proximate
3 a service panel thereof, said module including:
4 a dielectric body having interconnected terminal sets,
5 and
6 continuity indicator circuits associated with at least
7 some of said terminal sets;
8 mounting a compressor component to said frame;
9 mounting a compressor controller component to said frame;
10 connecting leads of said compressor component to said
11 compressor controller component;
12 connecting leads of said compressor controller component to
13 one of said interconnected terminal sets;
14 mounting at least one sensor component to said frame;
15 connecting leads of said at least one sensor component to at
16 least one other of said interconnected terminal sets;
17 mounting a fan component to said frame;
18 connecting leads of said fan component to an other one of said
19 interconnected terminal sets;
20 mounting a timer component to said frame; and
21 connecting leads of said timer component to yet one other of
22 said interconnected terminal sets, said continuity indicator
23 circuits configured to indicate continuity faults with respect to
24 said refrigeration unit.

16. The method as recited in Claim 15 wherein at least some
2 of said terminal sets are interconnected in series.

17. The method as recited in Claim 15 wherein said continuity
2 indicator circuits include light-emitting diodes.

18. The method as recited in Claim 15 wherein said continuity
2 indicator circuits have impedances based on illuminating associated
3 light-emitting diodes.

19. The method as recited in Claim 15 wherein said
2 centralized connector module further includes an AC Power In
3 terminal set and a voltage indicator circuit associated therewith
4 and configured to indicate a presence of a voltage thereacross.

20. The method as recited in Claim 15 wherein said
2 centralized connector module further includes output terminal sets
3 and voltage indicator circuits associated therewith and configured
4 to indicate an operation of corresponding ones of said components.

21. The method as recited in Claim 15 wherein said terminal
2 sets remain functional upon a failure of any of said continuity
3 indicator circuits.

22. A method of troubleshooting a refrigeration unit,
2 comprising:

3 opening a service panel of said refrigeration unit to reveal
4 a centralized connector module, including:

5 a dielectric body having interconnected terminal sets
6 corresponding to components connectable thereacross; and

7 continuity indicator circuits associated with at least
8 some of said terminal sets and configured to indicate
9 continuity faults with respect to connected ones of said
10 components; and

11 localizing a malfunction in said refrigeration unit based on
12 a status of said continuity indicator circuits.

23. The method as recited in Claim 22 wherein said continuity
2 indicator circuits include light-emitting diodes.

24. The method as recited in Claim 22 wherein said
2 centralized connector module further includes an AC Power In
3 terminal set and a voltage indicator circuit associated therewith
4 and configured to indicate a presence of a voltage thereacross.

25. The method as recited in Claim 22 wherein said
2 centralized connector module further includes output terminal sets
3 and voltage indicator circuits associated therewith and configured
4 to indicate an operation of corresponding ones of said components.

26. The method as recited in Claim 22 wherein said terminal
2 sets remain functional upon a failure of any of said continuity
3 indicator circuits.